

## Message Text

UNCLASSIFIED

PAGE 01 STATE 003434  
ORIGIN NSF-02

INFO OCT-01 EUR-12 ISO-00 OES-07 NAS-01 SS-15 CIAE-00  
INR-07 NSAE-00 L-03 /048 R

DRAFTED BY NSF/INT:AEPARDEE:MET  
APPROVED BY OES/APT/SEP:RGMORRIS  
OES/APT/SEP:DMCRAMER  
EUR/SOV:RWINDSOR  
NAS:GSHER  
NSF:MBARDON

-----086766 061835Z /47

R 061742Z JAN 78  
FM SECSTATE WASHDC  
TO AMEMBASSY MOSCOW

UNCLAS STATE 003434

E.O. 11652: N/A

TAGS: TGEN, US, UR

SUBJECT: US-USSR S&T AGREEMENT: PHYSICS (01.0802)

REF: STATE 300833

1. REQUEST EMBASSY PASS FOLLOWING LETTER TO ZELDOVICH FROM  
PINES WITH COPIES TO SKRYABIN AND AYKAZYAN.

2. 01.08 - DECEMBER 13, 1977.

ACADEMICIAN YA. B. ZEL'DOVICH  
INSTITUTE OF COSMIC RESEARCH  
ACADEMY OF SCIENCES  
PROFOSOYUZNAJA 88, MOSCOW 117485  
USSR

DEAR YACOV,

UNCLASSIFIED

UNCLASSIFIED

PAGE 02 STATE 003434

I WRITE WITH FURTHER DETAILS OF THE PROPOSED RESEARCH VISIT  
BY TWELVE SOVIET ASTROPHYSICISTS NEXT SUMMER.

(1) THE ASPEN ASTROPHYSICS WORKSHOP FROM JUNE 12-JUNE 30  
WILL HAVE ITS THEME EXPLORATION OF THEORETICAL PROBLEMS  
WHICH MAY BE RESOLVED BY INSTRUMENTS SUCH AS SPACE TELESCOPE,  
HEAO-A AND B, THE VLA, VLBI NETWORKS, LARGE MILLIMETER WAVE

LENGTH TELESCOPES, VERY LARGE OPTICAL TELESCOPES, AND NOVEL

TECHNIQUES. THE TOPICS WILL BE CHOSEN FROM AREAS OF THE INTERSTELLAR MEDIUM, COLLAPSED OBJECTS, GALACTIC STRUCTURE, EXTRAGALACTIC ASTRONOMY, AND COSMOLOGY. IT IS BEING ORGANIZED BY RICHARD MCCRAY.

(2) THE ASPEN WORKSHOP ON PARTICLE PHYSICS AND ASTRO-PHYSICS FROM JULY 3-JULY 24 WHICH IS BEING ORGANIZED BY GARY STEIGMAN WILL EXPLORE THOSE AREAS IN WHICH PROGRESS IN ONE OF THESE FIELDS MAY DIRECTLY INFLUENCE RESEARCH IN THE OTHER.

(3) THE MAIN TOPICS FOR THE SEATTLE SUMMER SCHOOL, WHICH IS BEING ORGANIZED BY LARRY SMARR WILL BE: (1) NEW CALCULATIONAL TOOLS FOR STRONG-FIELD SOURCES AND (2) A CRITICAL ASTROPHYSICAL REVIEW OF ALL OBSERVATIONAL TARGETS FOR GRAVITATIONAL-WAVE ASTRONOMY. THE ORGANIZERS ARE PARTICULARLY EAGER TO HAVE THE PARTICIPATION OF YOURSELF, I. D. NOVIKOV, A. G. POLNAROV, A. A. STAROBINSKY, AND A. G. DOROSHKEVICH.

(4) THE WORKSHOP AT SANTA CRUZ, FROM JULY 9-29, 1978, IS BEING ORGANIZED BY PROF. S. WOOSLEY, WHO WILL WRITE TO YOU DIRECTLY ABOUT PROPOSED SOVIET PARTICIPANTS.

UNCLASSIFIED

UNCLASSIFIED

PAGE 03 STATE 003434

(5) WE WOULD LIKE TO SEE THE SECOND JOINT RESEARCH SEMINAR ON RELATIVISTIC ASTROPHYSICS FOCUS ON THOSE FRONTIER TOPICS FOR WHICH BOTH SOVIET AND US THEORISTS ARE MAKING CONTRIBUTIONS OF FUNDAMENTAL IMPORTANCE. ALL THE US PARTICIPANTS IN THE PROTVINO RESEARCH SEMINAR HAVE EXPRESSED THEIR INTEREST IN PARTICIPATING, AS HAVE DAVID ARNETT, JIM BARDEEN, JOHN BAGCALL, ELIHU BOLDT, RICHARD MCCRAY, JERRY OSTRIKER, MAL RUDERMAN, AND KIP THORNE.

(6) IN ADDITION THE THEORETICAL ASTROPHYSICS GROUPS AT CALTECH, UNIV. OF CHICAGO, THE INSTITUTE FOR ADVANCED STUDY, THE UNIV. OF ILLINOIS, AND PRINCETON UNIV. WOULD BE GLAD TO HOST THOSE SOVIET VISITORS WHOSE RESEARCH INTERESTS OVERLAP WITH THEIR OWN.

AS I NOTED IN MY TELEXED LETTER TO YOU OF DECEMBER 8, IT IS ESSENTIAL THAT WE RECEIVE EARLY WORD OF THE INTENTION OF THE SOVIET ASTROPHYSICAL COMMUNITY TO PARTICIPATE IN THE PROGRAM I HAVE DESCRIBED, AS IT WILL TAKE CONSIDERABLE TIME TO ARRANGE THE PROGRAM OF RESEARCH VISITS, COLLABORATION, AND SEMINARS WHICH I HAVE DESCRIBED. THUS I WOULD FIND IT HELPFUL TO RECEIVE WORD

FROM YOU IN THE VERY NEAR FUTURE CONCERNING THE CHARACTER  
OF THE PROPOSALS MADE IN THIS LETTER, AND WE MUST HAVE THE  
NAMES OF ALL SUGGESTED PARTICIPANTS IN THE SOVIET

RESEARCH GROUP BY FEBRUARY 1, 1978, IN ORDER TO MAKE  
DEFINITE PLANS FOR THE PROGRAM. WE ARE PLANNING  
FINANCIAL SUPPORT FOR A GROUP OF 12 SOVIET PARTICIPANTS  
IN THE US FOR A PERIOD OF 70 DAYS. IT IS EXPECTED THAT  
THE SOVIET SIDE WILL PROVIDE TRANSPORTATION FOR YOUR  
PARTICIPANTS TO THE SITE OF THE PRINCIPAL ACTIVITY  
(ASPEN, COLORADO).

I BELIEVE THAT I SPEAK FOR ALL THE PARTICIPANTS IN THE  
PROTVINO RESEARCH SEMINAR IN SAYING THAT WE FOUND IT A  
UNCLASSIFIED

UNCLASSIFIED

PAGE 04 STATE 003434

MOST PRODUCTIVE AND STIMULATING MEETING, AND THAT WE  
SHOULD LIKE ONCE MORE TO THANK YOU, ROALD SAGDEEV, AND  
RASHID SUNYAEV FOR THE VERY GREAT ORGANIZATIONAL EFFORTS  
WHICH MADE THE SEMINAR SUCH A SUCCESSFUL ONE. WE HOPE  
VERY MUCH THAT IT WILL PROVE POSSIBLE FOR US TO WELCOME  
YOU AND YOUR COLLEAGUES IN THIS COUNTRY DURING THE COMING  
YEAR.

WITH ALL GOOD WISHES FOR THE NEW YEAR.

SINCERELY,

DAVID PINES.

CC:

DR. SKRYABIN  
DR. AYKAZYAN. CHRISTOPHER

UNCLASSIFIED

NNN

## Message Attributes

**Automatic Decaptioning:** X  
**Capture Date:** 01 jan 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** AGREEMENTS, PHYSICS  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 06 jan 1978  
**Decaption Date:** 01 jan 1960  
**Decaption Note:**  
**Disposition Action:** n/a  
**Disposition Approved on Date:**  
**Disposition Case Number:** n/a  
**Disposition Comment:**  
**Disposition Date:** 01 jan 1960  
**Disposition Event:**  
**Disposition History:** n/a  
**Disposition Reason:**  
**Disposition Remarks:**  
**Document Number:** 1978STATE003434  
**Document Source:** CORE  
**Document Unique ID:** 00  
**Drafter:** AEPARDEE:MET  
**Enclosure:** n/a  
**Executive Order:** N/A  
**Errors:** N/A  
**Expiration:**  
**Film Number:** D780010-1270  
**Format:** TEL  
**From:** STATE  
**Handling Restrictions:** n/a  
**Image Path:**  
**ISecure:** 1  
**Legacy Key:** link1978/newtext/t19780190/aaaacylq.tel  
**Line Count:** 154  
**Litigation Code IDs:**  
**Litigation Codes:**  
**Litigation History:**  
**Locator:** TEXT ON-LINE, ON MICROFILM  
**Message ID:** 358d01e6-c288-dd11-92da-001cc4696bcc  
**Office:** ORIGIN NSF  
**Original Classification:** UNCLASSIFIED  
**Original Handling Restrictions:** n/a  
**Original Previous Classification:** n/a  
**Original Previous Handling Restrictions:** n/a  
**Page Count:** 3  
**Previous Channel Indicators:** n/a  
**Previous Classification:** n/a  
**Previous Handling Restrictions:** n/a  
**Reference:** 78 STATE 300833  
**Retention:** 0  
**Review Action:** RELEASED, APPROVED  
**Review Content Flags:**  
**Review Date:** 09 feb 2005  
**Review Event:**  
**Review Exemptions:** n/a  
**Review Media Identifier:**  
**Review Release Date:** n/a  
**Review Release Event:** n/a  
**Review Transfer Date:**  
**Review Withdrawn Fields:** n/a  
**SAS ID:** 3816234  
**Secure:** OPEN  
**Status:** NATIVE  
**Subject:** US-USSR S&T AGREEMENT: PHYSICS (01.0802)  
**TAGS:** TGEN, US, UR  
**To:** MOSCOW  
**Type:** TE  
**vdkgvwkey:** odb://SAS/SAS.dbo.SAS\_Docs/358d01e6-c288-dd11-92da-001cc4696bcc  
**Review Markings:**  
Sheryl P. Walter  
Declassified/Released  
US Department of State  
EO Systematic Review  
20 Mar 2014  
**Markings:** Sheryl P. Walter Declassified/Released US Department of State EO Systematic Review 20 Mar 2014